

NOTES

CLASS 6

MATHS

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IMPORTANT CONCEPTS:

- ❖ To arrange given numbers in the ascending order start from the smallest number and go upto the greatest number, eg. 3,4,9,12,20 is the ascending order.
- ❖ To arrange given numbers in the descending order start from greatest and move to the smallest number, eg. 102 ,87,64,45 is the descending order.
- ❖ Indian system of numeration uses ones, tens, hundreds, thousands, lakhs and crores.
- ❖ International system of numeration uses ones, tens thousands, and millions. Commas are used after every 3 digits from the right.
- ❖ Face value of a digit is the value of the digit itself.
- ❖ Place value is the product of face value and value of place occupied by the digit.

SOME ILLUSTRATION/EXAMPLES:

(MCQs)

1. How many mm in 1m:
(a) 10 (b) 100 (c) 1000 (d) 10000

Sol: $1 \text{ m} = 100 \text{ cm} = 100 \times 10 \text{ mm} = 1000 \text{ mm}$. so, option (c) is correct.

2. In 368041 the place value of 8 is:
(a) 8000 (b) 800 (c) 80 (d) 80000

Sol: The place value of 8 = $1000 \times 8 = 8000$. So option (a) is correct.

3. 1 million is equivalent to
(a) 100 thousands (b) 1000 thousands (c) 10 thousands (d) 1 crore

Sol : $1000 \times 1000 = 1000000$. So option (b) is correct.

4. Writ the roman numerals for 59
(a) XLV (b) VLX (c) XVL (d) LIX

Sol : $59 = 50 + 9 = \text{L} + \text{IX} = \text{LIX}$. So option (d) is correct.



CASE STUDY QUESTION

African safari dventure



Kit and Mathew begin their African Safari at the watering hole. They had two days to see all the wild life they could. Their parents and the guide kept them safe.

The first morning 8 elephants come to the waterhole for their morning bath. Soon kit counted 18 zebras coming for water. A dozen baboons wandered in and started making noise and acting silly.

The next day everyone Road into the bush. They paused to look at a lone rhino standing in a clearing. While they were looking, the rhino begin to charge them. kit and Matthew screamed but the guide drove them to safely.

Further on they found a pride of six lions dozing under an acacia tree. Above the lions , 22 monkeys are playing on the tree. Matthew and kit saw a giraffe with baby standing beside a tree. The giraffe stretched to reach its food with its long tongue.

Everyone was tired. They had seen no leopards, or hyenas, or cheetahs. Lions had not roared, but a rhino had threatened them. what an exciting adventure they had !

Q 1. The approximate number (rounded off to 10) of total animals the children see their first day on safari -

- (a) 30 (b) 45 (c) 50 (d) 40

Q 2. Arrange the number of animals in descending order they see on first day ?

Q 3. Write the total number of animals they see on first day in Roman Number.

Q 4. Arrange the number of animals they see in two days in ascending and descending order ?

ANS.

1. (d) 2. $18 > 12 > 8$ 3. XXXVIII 4. $1 < 2 < 6 < 8 < 12 < 18 < 22$

$22 > 18 > 12 > 8 > 6 > 2 > 1$



SHORT ANSWER TYPE QUESTIONS

1. Write the given number in expanded form: 589342
Sol: $589342 = 500000 + 80000 + 9000 + 300 + 40 + 2$
2. Write the given number in words 278060:
Sol: Two lakh seventy-eight thousand sixty.
3. Express 932543896 in Indian system
Sol: 93,25,43,896.

LONG ANSWER TYPE QUESTIONS

1. A truck is loaded with 200 packets of apple. If each box weighs 5kg 350g. Then find the total weight of apples in the truck.
Weight of one packet = 5 kg 850 gm
No. of packets = 200
Total weight of apples = $200 \times (5 \text{ kg } 850 \text{ gm})$
$$= 200 \times (5000 \text{ gm} + 850 \text{ gm})$$
$$= 200 \times 5850 \text{ gm}$$
$$= 1170000 \text{ gm}$$
$$= (1170000 / 1000) \text{ kg} = 1170 \text{ kg}$$
2. The town newspaper is published every day. One copy has 12 pages. Every day 11,980 copies are printed. How many total pages are printed every day.

No. of pages in one copy = 12

No. of copies = 11980

Therefore total pages printed every day $12 \times 11980 = 143760$ pages.



QUESTIONS FOR PRACTICE

MCQs

1. The greatest 5-digit number using the 3, 1, and 0
(a) 30001 (b) 10003 (c) 31000 (d) 13000 ANS(c)
2. The place value of 2 in 91023045 is:
(a) 2000 (b) 20000 (c) 200 (d) 200000 ANS(B)
3. Number of symbols used in roman number is:
(a) 9 (b) 8 (c) 7 (d) 10 ANS (C)
4. Number of lakhs required to make a million:
(a) 10 (b) 100 (c) 1000 (d) 10000 ANS (A)
5. Which is smallest three digit No. which does not change even if digits are written in reverse order:
(a) 110 (b) 101 (c) 330 (d) 909 ANS (B)
6. Choose greatest No. among the following:
(a) 28397 (b) 34567 (c) 3303546 (d) 11850 ANS (C)
7. Choose smallest No. among the following:
(a) 602031 (b) 620312 (c) 631230 (d) 613203 ANS (A)
8. In 3,68,041 place value of 8 is :

- (a) 80 (b) 800 (c) 8000 (d) 80000 ANS (C)
 9. Smallest four digit number having three different digit is :
 (a) 1000 (b) 1001 (c) 1002 (d) 2001 ANS (C)
 10. The largest number which can formed by digits 4307 without repeating digits :
 (a) 4037 (b) 4703 (c) 7403 (d) 7430 ANS (D)

SHORT ANSWER TYPE QUESTIONS

1. How many mm in 1 cm ANS: 10 mm
2. How many centimeters make kilometer ANS: 1 Lakh cm
3. How many milligrams make one-kilogram ANS: 1000 mg
4. Write in roman numerals for 73 ANS: LXXIII
5. Write place value of 9 in 390345 ANS: 90,000
6. Write the Hindu- Arabic numerals for XLV ANS: 45
7. Write roman numeral for 38 ANS : XXXVIII
8. Write the largest 4 – digit number ANS : 9999
9. What is the successor of 989599 ANS : 989600
10. Find the difference of place value of 5 in 25472 and 19523 ANS : 4500

LONG ANSWER TYPE QUESTIONS

1. A medicine bottle contains 50 ml of a certain medicine. What will be quantity of medicine in 2000 such bottles? . Express the answer in litres ANS : 100 litre
2. A vessel contains 5 litre 750 ml of oil. How many bottles would be required if it is to be sold in a packing of 50 ml only ? ANS : 115 bottles
3. A shopkeeper sold 55029425kg of rice in 2005 and 82435175 kg rice in year 2006. Find the difference in the quantity of rice sold in two years. ANS : 27405750kg
4. A fruit seller sold 5248519kg of apples and 4732440kg of oranges. What is the total weight of fruit sold ? ANS : 9980959kg
5. In an election Ram lal won over his contestant Shyam lal by 24592840 votes. If he got 203242337 votes in all, how many votes would Shyam lal have got?
 ANS : 227835177
6. A box of noodles weigh 5 kg 200gm. How many such boxes can be transported in a truck with a maximum capacity of 1500kg ? ANS : 288 boxes



CASE STUDY QUESTIONS

1.

Colony Blocks

In a colony of 100 blocks the flats are numbered 1 to 100, a school van stops at every 6th block while a school bus stops at every 10th block. Hari, Jackline, Sindhu and Robert are 4 friends. Hari lives in 42nd block Jackline lives in 53rd block, Sindhu lives in 60th block while Robert lives in 80th block.



Q.1 School van stops at _____ and _____ Blocks.

- (a) Hari, Sindhu
- (b) Jackline, Hari
- (c) Sindhu, Robert
- (d) Jackline, Robert

Q.2) Out of 4 friends whose block neither school van stops nor school bus?

.....

Q.3) Name the two friends who can catch the school bus only.

.....

Q.4) Who can catch both school Van and School bus to go to school.

ANS:

- Q.1 option (A)
- Q.2 Jackline
- Q.3 Sindhu, Robert
- Q.4 Sindhu



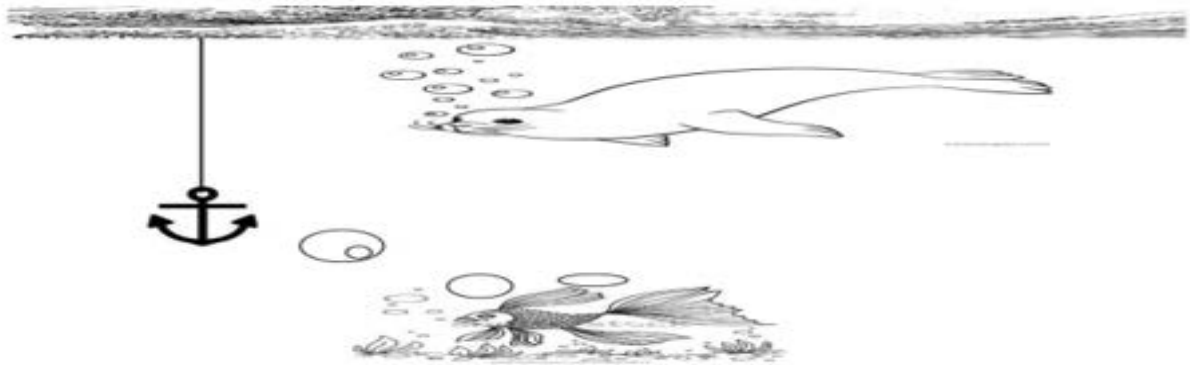
THE SEAL FISH

Seals eat primarily **fish**. They use their whiskers for locating prey in these predominantly turbid waters. ... They can also determine the size and shape of the **fish** from a distance. **Seals** do not have a preference for one specific **fish** species, but they usually

catch **fish** that live close to the sea bottom. A seal swims just as readily on its back as on its belly, standing upright or upside down. The front flippers serve as paddles; the body and hind fins provide the propulsion.

Seals can dive down to depths of hundreds of meters. During the first few minutes, they swim actively downwards, after which they go into a kind of gliding flight while they sink even deeper. Their body is totally adapted to long and deep dives.

A seal is swimming in the ocean 5 feet below sea level. It dives down 12 feet to catch some fish. Then the seal swims 8 feet towards the surface with its catch.



Q1 What is the seal final elevation relative to sea level?

- (a) 9 feet (b) 8 feet (c) 20 feet (d) 15 feet

Q2. Find the position of the fish from sea level ?

Q3. What is the position of the seal fish from sea level ?

Q4 If seal fish swim 10 feet below the sea level then what will be the final elevation of seal fish ?

ANS:

1. (a)
2. 17 feet below the sea
3. 5 feet below the sea
4. 14 feet below sea level



CHAPTER TEST-1

MM.30

1. How many crores makes a billion?
2. Find the greatest number from below number 763298 and 764298
3. On Sunday 6000 people visited a zoo. Among them 2615 were children then how many adult visited zoo?
4. Place commas correctly and write the numerals :
 - a) Seventy three lakh seventy five thousand three hundred seven.
5. Kirti Bookstore sold books worth Rs.2,85,891 in the first week of June and books worth Rs.4,00,768 in the second week of the month. How much was the sale for the two weeks together? In which week was the sale greater and by how much?
6. Find the greatest and the smallest number. 42375, 42367, 42329, 42338
7. Write and solve the expression: Thirteen multiplied by sum of four and eleven. Now reverse the result and add it to earlier result, what you obtain multiply it by 13.
8. X and Y worked as salesperson at a book store. They sold 6283 story books in all. X sold 3324 story books. How many story books were sold by Y?
9. A factory makes 132 machines per day. How many machines will the factory make in March?
10. The population of a town was 9,75,689. In the first year it increased by 4563 and in the second year it decreased by 8976. What was the population of the town at the end of second year?

CHAPTER TEST-2

MM.20

1. Insert commas suitably and write names according to Indian system numeration
88800023
2. Write largest 6 digit number having two different digits.
3. Write all possible 3 digit number by using 9, 0, 5. If repetition of digit is not allowed.
4. Write all possible numbers by using the digits 8, 2, 1, if repetition of digit is not allowed.
5. Arrange following numbers in ascending order.
(a) 5431 (b) 2013 (c) 1045 (d) 8921
6. Write the smallest and the largest number formed by using digit 8, 2, 7. Also find their difference.
7. Arrange No. in ascending order.
(a) 89999 (b) 56039 (c) 38999
8. Write the smallest and largest number of 4 digits, 5 digits and 6 digits.
9. How many thousands make a crore.



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